

**IN THE CLAIMS**

Please amend claims 32 and 33 as shown below. The following listing of claims replacing all previous listings:

1-31. (Canceled).

32. (Currently amended) An optical irradiation device comprising a radiation source consisting essentially of a plurality of LEDs ~~for emitting radiation, the plurality of LEDs~~ thermally connected to a heat pipe and disposed at an end thereof, ~~wherein all of the plurality of LEDs are at an end of the heat pipe~~, a unitary thermal connector directly connecting the plurality of LEDs and the heat pipe, ~~said heat pipe~~ for conducting heat away from the plurality of LEDs.

33. (Currently amended) The optical irradiation device according to claim 32 further comprising a fan or Peltier device proximate to the ~~one or more~~ heat pipe.

34. (Previously presented) The optical irradiation device according to claim 32 further comprising a heat sink in thermal contact with the heat pipe.

35. (Previously presented) The optical irradiation device according to claim 33, further comprising a heat sink in thermal contact with the heat pipe.

36. (Previously presented) The optical irradiation device according to claim 32, wherein the heat pipe provides a means for cooling the plurality of LEDs such that the plurality of LEDs are capable of being driven to produce more radiation than the plurality of LEDs would be capable of without the heat pipe.

37. (Previously presented) The optical irradiation device according to claim 32, wherein the plurality of LEDs are formed into one or more clusters.

38. (Previously presented) The optical irradiation device according to claim 32,  
wherein the plurality of LEDs are formed into one or more arrays.

39. (Canceled).